

**STIC-Biotech/ChemLib**

89351

From: Li, Ruixiang  
Sent: Tuesday, March 18, 2003 2:42 PM  
To: STIC-Biotech/ChemLib  
Subject: Sequence search of Application NO: 09/652,345

Please do a standard search on SEQ ID NO: 6 against the interference nucleic acid databases.

Thank you very much!

Ruixiang Li  
GAU 1646  
CM1 10E18  
Mail Box 10D19  
306-0282

RECEIVED  
MAR 18 2003  
STIC-Biotech/ChemLib  
(STIC)

POINT OF CONTACT:  
PAUL SCHULWITZ  
TECHNICAL INFO. SPECIALIST  
CM1 6B06 TEL. (703) 305-1954

Searcher: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Location: \_\_\_\_\_  
Date Picked Up: 3/20  
Date Completed: 3/28  
Searcher Prep/Review: \_\_\_\_\_  
Clerical: \_\_\_\_\_  
Online time: \_\_\_\_\_

TYPE OF SEARCH:

NA Sequences: \_\_\_\_\_  
AA Sequences: \_\_\_\_\_  
Structures: \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Full text: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

VENDOR/COST (where applic.)

STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
Questel/Orbit: \_\_\_\_\_  
DRLink: \_\_\_\_\_  
Lexis/Nexis: \_\_\_\_\_  
Sequence Sys.: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other (specify): \_\_\_\_\_

GenCore version 5.1.4.p5\_4578  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: March 27, 2003, 18:23:43 ; Search time 108 Seconds  
(without alignments)  
874.611 Million cell updates/sec

Title: US-09-652-345-6  
Perfect score: 543  
Sequence: 1 ILLVSDHEGRAAQKRLET.....ISGNALRYAPDGIGIQLIN 111

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Ygapext 10.0 / Ygapext 0.5  
Fgapext 6.0 / Fgapext 7.0  
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Searched: 574371 seqs, 425486471 residues

Total number of hits satisfying chosen parameters: 1148742

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

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11: /cgn2\_6/podata/2/pubpna/US10\_NEW\_PUB.seq:  
12: /cgn2\_6/podata/2/pubpna/US10\_PUBCOMB.seq:  
13: /cgn2\_6/podata/2/pubpna/US60\_NEW\_PUB.seq:  
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9 538 99.1 3935 9 US-10-038-937-19  
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45 102.5 18.9 4695 9 US-09-945-901-57

## ALIGNMENTS

RESULT 1  
US-09-917-800A-1727  
Sequence 1727, Application US/09917800A  
Patent No. US0020119462A1  
GENERAL INFORMATION:  
APPLICANT: Mendrick, Donna  
APPLICANT: Porter, Mark  
APPLICANT: Johnson, Kory  
APPLICANT: Castle, Arthur  
APPLICANT: Elashoff, Michael  
APPLICANT: Gene Logic, Inc.  
TITLE OF INVENTION: Molecular Toxicology Modeling  
FILE REFERENCE: 44921-5038-US  
CURRENT APPLICATION NUMBER: US/09/917,800A  
PRIOR FILING DATE: 2001-07-31  
PRIOR APPLICATION NUMBER: US 60/222,040  
PRIOR FILING DATE: 2000-07-31  
PRIOR APPLICATION NUMBER: US 60/290,029  
PRIOR FILING DATE: 2001-05-11  
PRIOR APPLICATION NUMBER: US 60/290,645  
PRIOR FILING DATE: 2001-05-15  
PRIOR APPLICATION NUMBER: US 60/292,336  
PRIOR FILING DATE: 2001-05-22  
PRIOR APPLICATION NUMBER: US 60/295,798  
PRIOR FILING DATE: 2001-06-06  
PRIOR APPLICATION NUMBER: US 60/297,457

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the total score distribution, and is derived by analysis of the total score distribution.

**SUMMARIES**

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2	538	99.1	3155	9 US-09-945-901-13	Sequence 13, Appl
3	538	99.1	3155	9 US-10-007-747-13	Sequence 13, Appl
4	538	99.1	3155	9 US-10-038-937-13	Sequence 13, Appl

PRIOR FILING DATE: 2001-06-13  
 PRIOR APPLICATION NUMBER: US 60/298, 884  
 PRIOR FILING DATE: 2001-06-19  
 PRIOR APPLICATION NUMBER: US 60/303, 459  
 PRIOR FILING DATE: 2001-07-09  
 NUMBER OF SEQ ID NOS: 1740  
 SOFTWARE: PatentIn Ver. 2.1  
 SEQ ID NO: 1727  
 LENGTH: 4213  
 TYPE: DNA  
 ORGANISM: Rattus norvegicus  
 OTHER INFORMATION: Genbank Accession No. US20020119462A1 NM\_017010  
 US-09-917-800A-1727

Alignment Scores:

Pred. No.:	Score:	Length:	Matches:	Conservative:	Mismatches:	Indels:	Gaps:
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Qy 21 LeuLeuGluGluArgGluSerLysAlaGluLysValleuGlnPheAspProGlyIthrLys 40  
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RESULT 2

US-09-945-901-13  
 Sequence 13, Application US/09945901  
 Patent No. US20020161215A1  
 GENERAL INFORMATION:  
 APPLICANT: Daggett, Lorrie P.  
 Ellis, Steven B.  
 Liaw, Chen W.

TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR

NUMBER OF SEQUENCES: 63

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Heller, Enhman White & McAuliffe  
 STREET: 4250 Executive Square, 7th Floor  
 CITY: La Jolla  
 STATE: CA  
 ZIP: 92037  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09-945, 901  
 FILING DATE: 24-Jan-2001  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/940, 035  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: US 08/052, 449  
 FILING DATE: 20-APR-1993  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Seidman, Stephanie  
 REGISTRATION NUMBER: 33,779  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-238-0999  
 TELEFAX: 619-238-0062  
 INFORMATION FOR SEQ ID NO: 13:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 3155 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 262..3030  
 SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
 US-09-945-901-13

Alignment Scores:

Pred. No.:	Score:	Length:	Matches:	Conservative:	Mismatches:	Indels:	Gaps:
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RESULT 3

US-10-007-747-13  
 ; Sequence 13, Application US/10007747  
 ; Patent No. US20020161193A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Daggett, Lorrie P.  
 ; Ellis, Steven B.  
 ; Liaw, Chen W.  
 ; Lu, Chin-Chun  
 ; TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR

SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR

NUMBER OF SEQUENCES: 63

CORRESPONDENCE ADDRESS:

ADDRESSEE: Heller Herman White & McAuliffe

STREET: 4250 Executive Square, 7th Floor

CITY: La Jolla

STATE: CA

COUNTRY: USA

ZIP: 92037

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC Compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/007,747

FILING DATE: 07-Dec-2001

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/648,797

FILING DATE: 28-Aug-2000

APPLICATION NUMBER: US/08/940,086A

FILING DATE: 29-SEPT-97

APPLICATION NUMBER: US 08/231,193

FILING DATE: 20-APR-1994

APPLICATION NUMBER: US 08/052,449

FILING DATE: 20-APR-1993

ATTORNEY/AGENT INFORMATION:

NAME: Seidman, Stephanie

REGISTRATION NUMBER: 33,779

REFERENCE/DOCKET NUMBER: 24735-3383C

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 450-8400

TELEFAX: (619) 450-8499

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 3155 base pairs

TYPE: nucleic acid

STRANDEDNESS: both

TOPOLOGY: both

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 262..3030

SEQUENCE DESCRIPTION: SEQ ID NO: 13:

US-10-007-747-13

Alignment Scores:

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Best Local Similarity:	98.20%	Mismatches:	0
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US-09-652-345-6 (1-111) x US-10-007-747-13 (1-3155)

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 Db 1048 CCAGACGGCATCCNGGcGCTAGCTCATCAC 1080

RESULT 5  
 US-09-945-901-21  
 Sequence No. 21, Application US/09945901  
 Patent No. US20030161215A1

GENERAL INFORMATION:  
 APPLICANT: Daggett, Lorrie P.  
 Ellis, Steven B.  
 Liaw, Chen W.  
 Lu, Chin-Chun

TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR  
 NUMBER OF SEQUENCES: 63  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Heller White & McAuliffe  
 STREET: 4250 Executive Square, 7th Floor  
 STATE: CA  
 COUNTRY: U.S.A.  
 ZIP: 92027

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/945,901  
 FILING DATE: 24-Jan-2001  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: 08/940,035  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Seidman, Stephanie  
 REGISTRATION NUMBER: 33,779  
 REFERENCE/DOCKET NUMBER: 6362-9383E  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-238-0999  
 TELEFA: 619-238-0062  
 INFORMATION FOR SEQ ID NO: 21:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 321 base Pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 262..3192  
 SEQUENCE DESCRIPTION: SEQ ID NO: 21:

US-09-945-901-21

Alignment Scores:  
 pred. No.: 9 69e-69 Length: 321.1  
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 Query Match: 99.08% DB: 9 Indels: 0  
 Gaps: 0

US-09-652-345-6 (1-111) × US-09-945-901-21 (1-2111)

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Qy 41 AsnValthrAlaLeuLeuMetGluAlaArgGluIeLeuLeuSer 60  
 Db 868 AACGTGAGGCGCTGCGATGAGCTGGCTGGCTGGCTGGCTAGGCC 927

Qy 61 AlaSerGluAspAspAlaAlaAlaMetLeuAsnMetThrGly 80  
 Db 928 GCCAGCGAGGAGCTGCTGCACTGATGCCACTGTTACCCGCAACCGGATGCTGAACATGACGGC 987

Qy 81 SerGlyTyrrValTrpLeuValGlyGluArgGluIeSerGlyAsnAlaLeuArgTyrrAla 100  
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RESULT 6  
 US-10-007-747-21  
 Sequence 21, Application US/10007747  
 ; Patent No. US20020161193A1

TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR  
 NUMBER OF SEQUENCES: 63  
 GENERAL INFORMATION:  
 APPLICANT: Daggett, Lorrie P.  
 Ellis, Steven B.  
 Liaw, Chen W.  
 Lu, Chin-Chun

CURRENT APPLICATION DATA:  
 NUMBER OF SEQUENCES: 63  
 CORRESPONDENCE ADDRESS:  
 ADDRESS: Heller Ehrman White & McAuliffe  
 STREET: 4250 Executive Square, 7th Floor  
 CITY: La Jolla  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 92027  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/945,901  
 FILING DATE: 24-Jan-2001  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: 08/940,035  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Seidman, Stephanie  
 REGISTRATION NUMBER: 33,779  
 REFERENCE/DOCKET NUMBER: 6362-9383E  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-238-0999  
 TELEFA: 619-238-0062  
 INFORMATION FOR SEQ ID NO: 21:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 321 base Pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 262..3192  
 SEQUENCE DESCRIPTION: SEQ ID NO: 21:  
 US-09-945-901-21

REGISTRATION NUMBER: 33,779  
 REFERENCE/DOCKET NUMBER: 24735-9383C  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (619) 450-8400  
 TELEX/FAX: (619) 450-8499  
 INFORMATION FOR SEQ ID NO: 21:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 3211 base pairs  
 TYPE: nucleic acid  
 STRANDBNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 262..3192  
 SEQUENCE DESCRIPTION: SEQ ID NO: 21:  
 S-10-007-747-21

Alignment scores:

Scored No.:	9.69e-69	Length:	
Score:	538.00	Matches:	
Percent Similarity:	100.00%	Conservative:	
Best Local Similarity:	98.20%	Mismatches:	
Query Match:	99.00%	Indels:	
BV:	9	Gaps:	

S-09-652-345-6 (1-111) x US-10-007-747-21 (1-3211)

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  1 IleIleLeuIleValSerAspAspPheGluGlyArgAlaAla
  Y | ||| | | | | | | | | | | | | | | | | | | | | | | |
  748 ATCACCTCTGGTGTAGCGACCAAGGCGCCGGCGAC
  b | | | | | | | | | | | | | | | | | | | | | | | | |
  21 LeuIleGluGluArgGluSerLysAlaGluIleValLeuGlu
  Y | | | | | | | | | | | | | | | | | | | | | | | | |
  808 CTGCTGGAGGAAGCCGAGTCAGCAGAACAGGCTGAGCTGCA
  b | | | | | | | | | | | | | | | | | | | | | | | | |
  41 AsnValThrAlaLeuIleMetGluIleArgGluLeuGluAla
  Y | | | | | | | | | | | | | | | | | | | | | | | | |
  868 AACGTGACGCCCTCTGTAGGCGAAAGAGCTGAGCTGGAGGG
  b | | | | | | | | | | | | | | | | | | | | | | | | |
  61 AlaSerGluAspASPAlaAlaThrValTyRArgAlaAlaAla
  Y | | | | | | | | | | | | | | | | | | | | | | | | |
  928 GCCAGGGAGGAGCGATGCTGCACCTATAAGCGCAGGCCGG
  b | | | | | | | | | | | | | | | | | | | | | | | | |
  81 SerGlyTyrrValTrpIleLeuValGlyGluArgGluIleSerGlu
  Y | | | | | | | | | | | | | | | | | | | | | | | | |
  988 TCCGGGTACGTGTGCTGGTGGCGAGCGGGAGAGAATCTCGGG
  b | | | | | | | | | | | | | | | | | | | | | | | | |
  101 ProAspGlyIleTerIleGlyLeuGlnLeuIleAsn 111
  Y | | | | | | | | | | | | | | | | | | | | | | | | |
  1048 CAAGCGGATCCCTGGCTGAGCTCATCAC 1080
  b | | | | | | | | | | | | | | | | | | | | | | | | |

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RESULT 7  
 S-10-038-937-21  
 Sequence 21, Application US/10038937  
 Publication No. US20030013866A1  
 GENERAL INFORMATION:  
 - APPLICANT: Daggett, Lorrie P.  
 LU, Chin-Chun  
 TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE  
 NUMBER OF SEQUENCES: 63  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Heller Ehrman White & McAuliffe  
 STREET: 420 Executive Square, 7th Fl  
 CITY: La Jolla  
 STATE: CA  
 COUNTRY: U.S.A.  
 ZIP: 92037  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: floppy disk  
 COMPUTER: IBM PC Compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS

Liaw, Chen W.  
 Lu, Chin-Chun  
 TITLE OF INVENTION: HOPAN N-METHYL-D-ASPARTATE RECEPTOR SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR  
 NUMBER OF SEQUENCES: 63  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEES: Heller Ehrman White & McAuliffe  
 STREET: 4250 Executive Square, 7th Floor  
 CITY: La Jolla  
 STATE: CA  
 COUNTRY: U.S.A.  
 ZIP: 92037  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/945,901  
 FILING DATE: 24-Jan-2001  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/940,035  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: US 08/052,449  
 FILING DATE: 20-APR-1993  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Selidman, Stephanie  
 REGISTRATION NUMBER: 33,779  
 REFERENCE/DOCKET NUMBER: 6362-9383E  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-238-0999  
 TELEFAX: 619-238-0062  
 INFORMATION FOR SEQ ID NO: 19:  
 LENGTH: 3935 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 262..3030  
 SEQUENCE DESCRIPTION: SEQ ID NO: 19;  
 US-09-945-901-19

Alignment Scores:  
 Pred. No.: 1 1leIleLeuValSerAspAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20  
 Score: 536.-00 Length: 3935  
 Percent Similarity: 100.00% Matches: 109  
 Best Local Similarity: 98.20% Conservative: 2  
 Query Match: 99.08% Mismatches: 0  
 DB: 9 Gaps: 0

Qy 1 1leIleLeuValSerAspAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20  
 Db 748 ATCATCCTGCGTGTAGCGACCAAGGGCCGGGTCAGAACGCCATGAGACCG 807

Qy 21 LeuLeuGluGluArgGlySerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40  
 Db 808 CTGCTGAGGAGCCTGAGTCAGAGCAAGGAGAAGGCTGACTTGATCCAGGACCAAG 867

Qy 41 AsnValThrAlaLeuMetGluAlaArgGluLeuGluAlaArgValLeuIleLeuSer 60  
 Db 868 AACGTGAGGGCCCTGCTGTAGCGAGGCCAAAGAGCTGGAGGCCGGTCATCATCCCTTC 927

Qy 61 AlaSerGluAspAlaAlaLahrvAltyArgAlaAlaMetLeuAsnMetThrGly 80  
 Db 928 GCCAGCCAGGAGCTGCTGCACACTGATACCGCAGCCGATGCTGAACTGAG 987

Qy 81 SerGlyTyrvAltrpleuvalGlyGluArgGluSerGlyAsnAlaLeuArgTyraAla 100

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RESULT: 9
US-10-007-747-19

; Sequence 19, Application US/10007747
; Patent No. US2002161193A1

GENERAL INFORMATION:
APPLICANT: Daggett, Lorrie P.
Ellis, Steven B.
Law, Chen W.
Lu, Chin-Chun

TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR SUBUNITS, NUCLEAR ACIDS ENCODING SAME AND USES

NUMBER OF SEQUENCES: 63

CORRESPONDENCE ADDRESS:
ADRESSEE: Heller Ehrman White & McAuliffe
STREET: 4250 Executive Square, 7th Floor
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US10/007,747
FILING DATE: 07-Dec-2001

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/648,797
FILING DATE: 28-Aug-2000
APPLICATION NUMBER: US/08/940,086A
FILING DATE: 29-SEPT-97
APPLICATION NUMBER: US 08/231,193
FILING DATE: 20-APR-1994
APPLICATION NUMBER: US 08/052,449
FILING DATE: 20-APR-1993

ATTORNEY/AGENT INFORMATION:
NAME: Seidman, Stephanie
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 24735-9383C

TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 450-8400
TELEFAX: (619) 450-8499

INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 3935 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 262..3030

US-10-007-747-19

SEQUENCE DESCRIPTION: SEQ ID NO: 19:

Alignment Scores:
Pred. No.: 1,29e-68 Length: 3935
Score: 538,00 Matches: 109
Percent Similarity: 100,00% Conservative: 2
Best Local Similarity: 98,20% Mismatches: 0
Query Match: 99,08% Indels: 0
DB: 9 Gaps: 0
US-09-652-345-6 (1-111) x US-10-007-747-19 (1-3935)

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Qy 1 IleLeuLeuValSerAspAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20  
 Db 748 ATCACCTCTGGTCAGCGAACCCAGGGCCGGGTCAGAACGCCCTGGAAACG 807

Qy 21 LeuLeuGluGluArgLysSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40  
 Db 808 CTGCTGAGGAGCGTGAAGTCAGGCAAGGACCAAG 867

Qy 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValLeuSer 60  
 Db 868 AACGTTACGGCCCTGTGTGAGGGAAAGAGCTGGAGGCTCATCCCTTCT 927

Qy 61 AsnSerGluAspAspAlaAlaIleValThrValGlyArgAlaAlaMetLeuAsnMetThrGly 80  
 Db 928 GCCAGGGAGGAGCAGTCGCAACTGTATACCGCAAGCCGATGCTGAAACATGACGGC 987

Qy 81 SerGlyTyrrValTrpLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgGlyTyrAla 100  
 Db 988 TCCGGGTACGTTGGCTGGCGGACCGCAAGATCTCGGGAAACGCCCTGGCTACGCC 1047

Qy 101 ProAspGlyIleIleGlyLeuGlnLeuLeuAsn 111  
 Db 1048 CCAGACGGCATCCTCGGGCTCAGCTCATCAC 1080

RESULT 10 - Sequence 19, 937-19  
 Publication No. US20030013866A1  
 GENERAL INFORMATION:  
 APPLICANT: Daggett, Lorrie P.  
 INU, Chin-Chun  
 TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR  
 NUMBER OF SEQUENCES: 63  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Heller Ehrman White & McAuliffe  
 STREET: 4250 Executive Square, 7th Floor  
 CITY: La Jolla  
 STATE: CA  
 COUNTRY: U.S.A.  
 ZIP: 92037

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS

CURRENT APPLICATION DATA:  
 SOFTWARE: Patent Release #1.0, Version #1.25  
 APPLICATION NUMBER: US/10/038,937  
 FILING DATE: 18-Apr-2002  
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/935,105  
 FILING DATE: 29-SEPT-97  
 APPLICATION NUMBER: US 08/231,193  
 FILING DATE: 20-APR-1994  
 APPLICATION NUMBER: US 08/052,449  
 FILING DATE: 20-APR-1993

ATTORNEY/AGENT INFORMATION:  
 NAME: Seidman, Stephanie  
 REGISTRATION NUMBER: 33,779  
 REFERENCE/DOCKET NUMBER: 6362-9383D

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-238-0999  
 TELEFAX: 619-238-0062  
 INFORMATION FOR SEQ ID NO: 19:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 3935 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS

; LOCATION: 262-.3030  
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 19:  
 US-10-038-937-19

Alignment Scores:  
 Pred. No.: 1.29e-68 Length: 3935  
 Score: 538.00 Matches: 109  
 Percent Similarity: 100.00% Conservative: 2  
 Best Local Similarity: 98.20% Mismatches: 0  
 Query Match: 99.08% Indels: 0  
 DB: 9 Gaps: 0

US-09-652-345-6 (1-111) x US-10-038-937-19 (1-3935)  
 Qy 1 IleLeuLeuValSerAspAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20  
 Db 748 ATCATCTCTGGTCAGCGAACCCAGGGCCGGGTCAGAACGCCCTGGAAACG 807  
 Qy 21 LeuLeuGluGluArgLysSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40  
 Db 808 CTGCTGAGGAGCGTGAAGTCAGGCAAGGACCAAG 867  
 Qy 21 LeuLeuGluGluArgLysSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40  
 Db 808 CTGCTGAGGAGCGTGAAGTCAGGCAAGGACCAAG 867  
 Qy 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValLeuSer 60  
 Db 868 AACGTTACGGCCCTGTGTGAGGGAAAGAGCTGGAGGCTCATCCCTTCT 927  
 Qy 61 AlaSerGluAspAspAlaAlaIleValThrValGlyArgAlaAlaMetLeuAsnMetThrGly 80  
 Db 868 AACGTTACGGCCCTGTGTGAGGGAAAGAGCTGGAGGCTCATCCCTTCT 927  
 Qy 61 AlaSerGluAspAspAlaAlaIleValThrValGlyArgAlaAlaMetLeuAsnMetThrGly 80  
 Db 928 GCCAGGGAGGAGCAGTCGCACTGATACCGCAAGCCGATGCTGAAACATGACGGC 987  
 Qy 81 SerGlyTyrrValTrpLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgTyrAla 100  
 Db 988 TCCGGGTACGTTGGCTGGCGGACCGCAAGATCTCGGGAAACGCCCTGGCTACGCC 1047  
 Qy 101 ProAspGlyIleIleGlyLeuGlnLeuLeuAsn 111  
 Db 1048 CCAGACGGCATCCTCGGGCTCAGCTCATCAC 1080  
 RESULT 11  
 US-09-652-345-901-1  
 Sequence 1, Application US/09945901  
 Patent No. US20020161215A1  
 GENERAL INFORMATION:  
 APPLICANT: Daggett, Lorrie P.  
 INU, Chen W.  
 Liaw, Chen W.  
 Lu, Chin-Chun  
 TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR  
 NUMBER OF SEQUENCES: 63  
 CORRESPONDENCE ADDRESS:  
 ADDRESSSEE: Heller Ehrman White & McAuliffe  
 STREET: 4250 Executive Square, 7th Floor  
 CITY: La Jolla  
 STATE: CA  
 COUNTRY: U.S.A.  
 ZIP: 92037  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS

CURRENT APPLICATION DATA:  
 SOFTWARE: Patent Release #1.0, Version #1.25  
 APPLICATION NUMBER: US/10/038,937  
 FILING DATE: 18-Apr-2002  
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/935,105  
 FILING DATE: 29-SEPT-97  
 APPLICATION NUMBER: US 08/231,193  
 FILING DATE: 20-APR-1994  
 APPLICATION NUMBER: US 08/052,449  
 FILING DATE: 20-APR-1993

ATTORNEY/AGENT INFORMATION:  
 NAME: Seidman, Stephanie  
 REGISTRATION NUMBER: 33,779  
 REFERENCE/DOCKET NUMBER: 6362-9383D

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-238-0999  
 TELEFAX: 619-238-0062  
 INFORMATION FOR SEQ ID NO: 19:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 3935 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/945,901  
 FILING DATE: 24-Jan-2001  
 CLASSIFICATION: <Unknown>  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: 08/940,035  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: US 08/052,449  
 FILING DATE: 20-APR-1993  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Seidman, Stephanie

REGISTRATION NUMBER: 33,779  
 REFERENCE/DOCKET NUMBER: 6362-9383E  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-238-0999  
 FAX: 619-238-0062  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 4298 base pairs  
 STRANDEDNESS: both  
 TYPE: nucleic acid  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 262..3078  
 SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
 US-09-945-901-1:

Alignment Scores:	Pred. No.:	1.45e-68	Length:	4298
	Score:	538.00	Matches:	109
	Percent Similarity:	100.00%	Conservative:	2
	Best Local Similarity:	98.20%	Mismatches:	0
	Query Match:	99.08%	Indels:	0
	DB:	9	Gaps:	0

US-09-652-345-6 (1-111) x US-09-945-901-1 (1-4298)

Qy	1	IleIleLeuLeuValSerAspAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr	20
D <sub>b</sub>	748	ATCCTCCGTCGGTCTGGTAGCCACGACCGAGGCCGCGGCGCTCAAAACGCCCTGGAGACG	807
Qy	21	LeuIleGluGluArgGluSerLysAlaGluLysValLeuLglpheAspProGlyThrLys	40
D <sub>b</sub>	808	CTGTGGAGGAGCTGAATCCAAGCAGAAGGCTGACATTGACCCAGGGACCAAG	867
Qy	41	AsnValThrAlaLeuLeuMetGluLalaArgGluLeuGluAlaArgValIleIleLeuSer	60
D <sub>b</sub>	868	AACCTGACGCCCTGGCTGATGAGGCCGAAAGAGCTGGAGGCCGGTCAATCCTTTCT	927
Qy	61	AlaSerGluAspAspAlaAlaIleThrValItyArgAlaAlaAlaMetThrGly	80
D <sub>b</sub>	928	GCCAGCGAGGAGCATGTCCTACTGTATAACGCCAGGCGGAGCTGARCATGAGCGGGC	987
Qy	81	SerGlyTyrValIlePheValGlyGluArgGluLeuSerGlyAsnAlaLeuArgTyrAla	100
D <sub>b</sub>	988	TCCGGTAGCTGCTGCTGAGCTCGGGAGGCCGAGACTCGGGAAACGCCCTGGCTACGCC	1047
Qy	101	ProAspGlyIleIleGlyLeuGluLeuIleAsn	111
D <sub>b</sub>	1048	CCAGACGGCATCCCTGGGTGCACTCAAC	1080

RESULT 12  
 -10-007-747-1  
 Sequence 1, Application US/10007747  
 Patent No. US2002016193A1  
 GENERAL INFORMATION:  
 APPLICANT: Daggett, Lorrie P.  
 Ellis, Steven B.  
 Liaw, Chen W.  
 LU, Chin-Chun  
 TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR  
 NUMBER OF SEQUENCES: 63  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Heller Ehrman White & McAuliffe  
 STREET: 4250 Executive Square, 7th Floor  
 CITY: La Jolla  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 92037  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk

RESULT 13  
 US-10-038-937-1  
 Sequence 1, Application US/10038937  
 Publication No. US20030013866A1

GENERAL INFORMATION:

APPLICANT: Daggett, Lorrie P.  
Lu, Chin-Chun

TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR

NUMBER OF SEQUENCES: 63

CORRESPONDENCE ADDRESS:  
ADDRESSEE: Heller Ehrman White & McAuliffe  
STREET: 4250 Executive Square, 7th Floor  
CITY: La Jolla

STATE: CA  
COUNTRY: U.S.A.

ZIP: 92037

COMPUTER READABLE FORM:  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/038,937  
FILING DATE: 18-APR-2002  
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/935,105  
FILING DATE: 29-SEPT-97  
APPLICATION NUMBER: US 08/231,193  
FILING DATE: 0-APR-1994  
APPLICATION NUMBER: US 08/052,449  
FILING DATE: 20-APR-1993

ATTORNEY/AGENT INFORMATION:  
NAME: Seidman, Stephanie  
REGISTRATION NUMBER: 33,779  
REFERENCE/DOCKET NUMBER: 6362-9383D

TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619-238-0999  
TELEFAX: 619-238-0062

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:  
LENGTH: 4,298 base Pairs  
TYPE: nucleic acid  
STRANDEDNESS: both  
TOPOLOGY: both  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 262..3078  
SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-10-038-937-1

Alignment Scores:

Pred. No.:	Score:	Length:	Matches:	Conservative:	Mismatches:	Indels:	Gaps:
1	538.00	4,298	109	2	0	0	0
748	98.20%						
748	99.08%						

US-09-652-345-6 (1-111) x US-10-038-937-1 (1-4298)

Qy 1 IleIleLeuLeuValSerAspAspHisGluGlyArgAlaAlaLysArgLeuGluThr 20

Db 748 ATCACCTGGTGTAGCAACGAACTGGGTCAGGAACTGGGGCTCATCATCTTCT 927

Qy 21 LeuLeuGluArgGluSerIysAlaGluIysValIysValIysGluPheAspProGlyThrIys 40

Db 808 CTGCTGAGGAGCGTGACTCAAGGAGAGGTGCTGAGTTGACCCAGGGACCAA 867

Qy 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleLeuSer 60

Db 868 AACGTCAGGGCCCTGCTGATGGCCAAAGGCTGGGGGGGTCATCATCTTCT 927

Qy 61 AlaSerGluAspAspAlaAlaThrValTyraGluAlaAlaMetLeuAsnMetThrGly 80

Db 928 GCCAGGGAGGAGCATGCTGCOACTGATAACCGGAGCCGGATGCTGAATGAGGGC 987

Qy 81 SerGlyTyryValTrpLeuValGlyGluIleSerGlyAsnAlaLeuArgTyraAla 100

Db 988 TCCGGTACATGTGGTGGTGGTGGGGAGAGTCGGGGAAACCCCTCGCTGCTAGGCC 1047

Qy 101 ProAspGlyTieIleLeuLeuLeuAsn 111

Db 1048 CCAGAGGGATCCTGGGCTGGAGCTCATCAC 1080

RESULT 14  
US 09 945 901-37  
; Sequence 37, Application US/09945501  
; Patient No. US20020161215A1  
; GENERAL INFORMATION:  
; APPLICANT: Daggett, Lorrie P.  
; Ellis, Steven B.  
; Liaw, Chen W.  
; Lu, Chin-Chun  
; TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR  
; NUMBER OF SEQUENCES: 63  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Heller Ehrman White & McAuliffe  
; STREET: 4250 Executive Square, 7th Floor  
; CITY: La Jolla  
; STATE: CA  
; COUNTY: U.S.A.  
; ZIP: 92037  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: FLOPPY DISK  
; COMPUTER: IBM PC Compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/945,901  
; FILING DATE: 24-Jan-2001  
; CLASSIFICATION: <Unknown>  
; PRIORITY APPLICATION DATA:  
; APPLICATION NUMBER: 08/940,035  
; FILING DATE: <Unknown>  
; APPLICATION NUMBER: US 08/052,449  
; FILING DATE: 20-APR-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Seidman, Stephanie  
; REGISTRATION NUMBER: 33,779  
; REFERENCE/DOCKET NUMBER: 6362-9383D  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 619-238-0999  
; TELEFAX: 619-238-0062  
; INFORMATION FOR SEQ ID NO: 37:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3274 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: both  
; TOPOLOGY: both  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1-65  
; SEQUENCE DESCRIPTION: SEQ ID NO: 37:  
; US-09-945-901-37

Alignment Scores:

Pred. No.:	Score:	Length:	Matches:	Conservative:	Mismatches:	Indels:	Gaps:
1	100.00%	109	2	0	0	0	0
748	98.20%						
748	99.08%						

US-09-652-345-6 (1-111) x US-10-038-937-1 (1-4298)

Qy 1 IleIleLeuLeuValSerAspAspHisGluGlyArgAlaAlaLysArgLeuGluThr 20

Db 748 ATCACCTGGTGTAGCAACGAACTGGGTCAGGAACTGGGGCTCATCATCTTCT 927

Qy 21 LeuLeuGluArgGluSerIysAlaGluIysValIysValIysGluPheAspProGlyThrIys 40

Db 808 CTGCTGAGGAGCGTGACTCAAGGAGAGGTGCTGAGTTGACCCAGGGACCAA 867

Qy 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleLeuSer 60

Db 868 AACGTCAGGGCCCTGCTGATGGCCAAAGGCTGGGGGGTCATCATCTTCT 927

Qy 61 AlaSerGluAspAspAlaAlaThrValTyraGluAlaAlaMetLeuAsnMetThrGly 80

Length: 3274  
Matches: 109  
Conservative: 2  
Mismatches: 0  
Indels: 21  
Gaps: 1

Length: 3255  
Matches: 262  
Conservative: 2  
Mismatches: 0  
Indels: 0  
Gaps: 0

Length: 3255  
Matches: 262  
Conservative: 2  
Mismatches: 0  
Indels: 0  
Gaps: 0

Length: 109  
Matches: 517..50  
Percent Similarity: 84.09%  
Best Local Similarity: 82.58%  
Query Match: 95.30%  
DB: 9

Length: 109  
Matches: 517..50  
Percent Similarity: 84.09%  
Best Local Similarity: 82.58%  
Query Match: 95.30%  
DB: 9

Length: 109  
Matches: 517..50  
Percent Similarity: 84.09%  
Best Local Similarity: 82.58%  
Query Match: 95.30%  
DB: 9

Length: 109  
Matches: 517..50  
Percent Similarity: 84.09%  
Best Local Similarity: 82.58%  
Query Match: 95.30%  
DB: 9

Length: 109  
Matches: 517..50  
Percent Similarity: 84.09%  
Best Local Similarity: 82.58%  
Query Match: 95.30%  
DB: 9

QY 1 IleLeuLeuLeuValSerAspAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20  
 Db 748 ATCATCCTGTGGTCAAGCGACCAACGAGGCCGGCGGGCTCAGAACGGCTGGAGACG 807  
 QY 21 LeuLeuGluGluArgGluSer ..... 27  
 Db 808 CTGCTGGAGGAAGCCGAGTCAGTCAGAGTAAAGAGTAAAGAAACTCTGACCAACTG 867  
 QY 28 - LysAlaGluLysValLeuGluPheAspProGlyThr 39  
 Db 866 TCTATGACACAAACGGAACCCAAAGGAGAGTGAGCTGACTTTGACCCAGGACC 927  
 QY 40 LysAsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValLeuLeu 59  
 Db 928 AGAACGTGAGGCCCTGCCTGATGAGGCCAAAGGCTGAGCTGAGGGCCGTCATCCCT 987  
 QY 60 SerAlaSerGluAspAlaAlaLysValLeuGluArgAlaAlaMetLeuAsnMetThr 79  
 Db 988 TCTGCCAGGGAGCAGATGCTGCCACTGTATAACCGCCAGCGCAGTCGTAACATGACG 1047  
 QY 80 GlySerGlyTyrValIleLeuGluPheAspGlyLysValGlyLysLeuGluArgTyr 99  
 Db 1048 GGCTCGGGTAGCTGGCGATGCTGGCGAGATCAGGGAAACGCCATGCTGGCTCA 1107  
 QY 100 AlaProAspGlyIleIleGlyLeuGluLeuLeuAsn 111  
 Db 1108 GCCCCAGACCGCATCTCGGGCTGAGCTCATCAAC 1143

RESULT 15  
 US-10-007-747-37  
 Sequence 37, Application US/10007747  
 Patent No. US20020161193A1  
 GENERAL INFORMATION:  
 APPLICANT: Daggett, Lorrie P.  
 ELLIS, Steven B.  
 LIAW, Chen W.  
 LU, Chin-Chun  
 TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR  
 SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR  
 NUMBER OF SEQUENCES: 63  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Heller, Ehrman White & McAuliffe  
 STREET: 4250 Executive Square, 7th Floor  
 CITY: La Jolla  
 STATE: CA  
 COUNTY: USA  
 ZIP: 92037

COMPUTER READABLE FORM:  
 MEDIUM TYPE: FLOPPY disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/10/007-747  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/09/648-797  
 FILING DATE: 28-AUG-2000  
 APPLICATION NUMBER: US/08/940,086A  
 FILING DATE: 29-SEPT-97  
 APPLICATION NUMBER: US/08/231,193  
 FILING DATE: 20-APR-1994  
 APPLICATION NUMBER: US/08/052,449  
 FILING DATE: 20-APR-1993

ATTORNEY/AGENT INFORMATION:  
 NAME: Seidman, Stephanie  
 REGISTRATION NUMBER: 33,779  
 REFERENCE/DOCKET NUMBER: 24735-9383C  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (619) 450-8400  
 TELEX: (619) 450-8499  
 INFORMATION FOR SEQ ID NO: 37:  
 SEQUENCE CHARACTERISTICS:

; LENGTH: 3274 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: both  
; TOPOLOGY: both  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 262..3255  
; SEQUENCE DESCRIPTION: SEQ ID NO: 37:  
; US-10-007-747-37

; Alignment Scores:  
; Pred. No.: 1e-65 Length: 3274  
; Score: 517.50 Matches: 109  
; Percent Similarity: 84.09% Conservative: 2  
; Best Local Similarity: 82.58% Mismatches: 0  
; Query Match: 95.30% Indels: 21  
; DB: 9 Gaps: 1

; US-09-652-345-6 (1-111) x US-10-007-747-37 (1-3274)

; Qy 1 IleLeuLeuLeuValSerAspAspHisGluGluArgAlaAlaGlnLysArgLeuGluThr 20  
; Db 748 ATCATCCTGTGGTCAAGCGACCAACGAGGCCGGCGGGCTCAGAACGGCTGGAGACG 807

; Qy 21 LeuLeuGluGluArgGluSer ..... 27

; Db 808 TCTATGACACAAACGGAACCCAAAGGAGAGTGAGCTGACTTTGACCCAGGACC 927

; Qy 40 LysAsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValLeuLeu 59

; Db 928 AGAACGTGAGGCCCTGCCTGATGAGGCCAAAGGCTGAGGGCCGTCATCCCT 987

; Qy 60 SerAlaSerGluAspAlaAlaLysValLeuGluArgAlaAlaMetLeuAsnMetThr 79

; Db 988 TCTGCCAGGGAGCAGATGCTGCCACTGTATAACCGCCAGCGCAGTCGTAACATGACG 1047

; Qy 80 GlySerGlyTyrValIleLeuGluPheAspGlyLysValGlyLysLeuGluArgTyr 99

; Db 1048 GGCTCGGGTAGCTGGCGATGCTGGCGAGATCAGGGAAACGCCATGCTGGCTCA 1107

; Qy 100 AlaProAspGlyIleIleGlyLeuGluLeuLeuAsn 111

; Db 1108 GCCCCAGACCGCATCTCGGGCTGAGCTCATCAAC 1143

; Search completed: March 27, 2003, 19:15:37  
; Job time : 115 secs

GenCore version 5.1.4.p5\_4578  
 Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - nucleic search, using frame\_plus\_p2n model

Run on: March 27, 2003, 18:14:48 ; Search time 68 Seconds  
 (without alignments)  
 500.605 Million cell updates/sec

Title: US-09-652-345-6

Perfect score: 543

Sequence: 1 IIIIVSDHEGRAAQKRLET.....ISGNALRYAPDGIGIQLIN 111

Scoring table: BLOSUM62

Xgapext 10.0 , Xgapext 0.5  
 Ygapext 10.0 , Ygapext 0.5  
 Fgapext 6.0 , Fgapext 7.0  
 Dgapext 6.0 , Delext 7.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Command line parameters:

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-Q=/cgn2.1/uspro.spoool/US09652345/runat_20032003_112945_12023/app_query.fasta_1.263
-DB=Issued_Patents_NA -QFMT=fastaP -SUFFN=_P2n.rni -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=BITS -START=1 -END=-1 -NATRIX=blosum62 -TRANS=human0.cdi
-LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=toto -NORM=ext -HEAPSIZE=500 -MINLEN=2000000000
-USER-US09652345 -CGNN1_1.61 @runat_20032003_112945_12023 -NCPU=6 -TCP=3
-NO_XLIPXY -NO_MMAPP -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG -DEV_TIMEOUT=120
-WARN_TIMEOUT=30 -THREADS=1 -XGAPPOP=0.5 -FGAPEXT=7
-YGAP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
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Database : Issued\_Patents\_NA:\*

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- 2: /cgn2.6/ptodata/1/ina/5B\_COMB.seq:\*
- 3: /cgn2.6/ptodata/1/ina/6A\_COMB.seq:\*
- 4: /cgn2.6/ptodata/1/ina/6B\_COMB.seq:\*
- 5: /cgn2.6/ptodata/1/ina/PCTUS\_COMB.seq:\*
- 6: /cgn2.6/ptodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

**SUMMARIES**

Result No.	Score	Query	Match	Length	DB	ID	Description
1	540	99.4	2760	1	US-08-026-138E-18		Sequence 18, App1
2	540	99.4	2760	1	US-08-026-138E-19		Sequence 19, App1
3	538	99.1	3155	2	US-08-231-193A-13		Sequence 13, App1
4	538	99.1	3155	2	US-08-486-273A-13		Sequence 13, App1
5	538	99.1	3155	3	US-08-480-474-13		Sequence 13, App1
6	538	99.1	3155	3	US-08-940-086A-13		Sequence 13, App1
7	538	99.1	3155	4	US-08-910-035A-13		Sequence 13, App1
8	538	99.1	3155	4	US-08-935-105A-13		Sequence 13, App1
9	538	99.1	3155	4	US-09-648-797-13		Sequence 13, App1
10	538	99.1	3211	2	US-08-231-193A-21		Sequence 21, App1
11	538	99.1	3211	2	US-08-486-273A-21		Sequence 21, App1
12	538	99.1	3211	3	US-08-480-474-21		Sequence 21, App1

**ALIGNMENTS**

RESULT 1 -18

US-08-026-138E-18

; Sequence 18, Application US/08026638E

; Patent No. 552166

; GENERAL INFORMATION:

; APPLICANT: Masayoshi MISHINA

; TITLE OF INVENTION: NOVEL PROTEINS AND GENES CODING THE SAME

; NUMBER OF SEQUENCES: 19

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Nishiohata Residence 1-107

; STREET: 5214, Nishiohata-machi

; CITY: Niigata-shi

; STATE: Niigata-ken

; COUNTRY: JAPAN

; ZIP: 951

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/026,138E

; FILING DATE: 26-FEB-1993

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: JP 39563/1992

; FILING DATE: 26-FEB-1992

; APPLICATION NUMBER: JP 173155/1992

; FILING DATE: 30-JUN-1992

; APPLICATION NUMBER: JP 215017/1992

; FILING DATE: 12-AUG-1992

; APPLICATION NUMBER: JP 303878/1992

; FILING DATE: 13-NOV-1992

; ATTORNEY/AGENT INFORMATION:

; NAME: Hamburg, C.Bruce

; REGISTRATION NUMBER: 22,389

; REFERENCE/DOCKET NUMBER: F-4551

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 986-340  
 FAX: (212) 953-7733  
 INFORMATION FOR SEQ ID NO: 18:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 2760 nucleic acids  
 TYPE: nucleic acid  
 STRANDEDNESS: double strand  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 ORIGINAL SOURCE:  
 ORGANISM: mouse  
 TISSUE TYPE: brain  
 PUBLICATION INFORMATION:  
 AUTHORS: Masayoshi MISHINA  
 TITLE: NOVEL PROTEINS AND GENES CODING THE SAME  
 RELEVANT RESIDUES IN SEQ ID NO: 18: FROM 1 to 2760  
 US-08-026-138E-18

Alignment Scores:  
 Pred. No.: 1.68e-64 Length: 2760  
 Score: 540.00 Matches: 110  
 Percent Similarity: 100.00% Conservative: 1  
 Best Local Similarity: 99.10% Mismatches: 0  
 Query Match: 99.45% Indels: 0  
 DB: 1 Gaps: 0

US-09-652-345-6 (1-111) x US-08-026-138E-18 (1-2760)

QY 1 IleLeuLeuValSerAspAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20  
 Db 433 ATCACCTGCTGGTACGTGCGATGACCAAGCAGGCCGGCAGAGCCGAG 492

QY 21 LeuLeuGluLeuGluLysAlaGlnLysValLeuGluAlaArgValLeuLeu 40  
 Db 493 TTGCTGGAGGAAGCTGAGTCAAAGCAGAGGNGCTGAGTTGACCCAGAAC 552

QY 41 AsnValThrAlaLeuLeuMetGluAlaArgGluAlaArgValLeuLeu 60  
 Db 553 ATATGACGCCCTCTGTAGAACCCGGGACCTGAACGCCGGTCAATATCCCTCT 612

QY 61 AlaSerGluAspAspAlaAlaThrValTyraGluAlaAlaMetLeuAsnMetThrGly 80  
 Db 613 GCAAGCAGGAGCAGGCTGCAACCTATAAGCAGCCGGATGCTGAACTGAGC 672

QY 81 SerGlyTyraValTrpLeuValGlyGluIleSerGlyAlaIleLeuGlu 100  
 Db 673 CCTGACGGCATCATGGACTCTAGTAACTCAC 765

QY 101 ProAspGlyIleIleGlyLeuGlnIleIleAsn 111  
 Db 733 CTTGACGGCATCATGGACTCTAGTAACTCAC 765

RESULT 2  
 Sequence 19, Application US/08026138E  
 Patent No. 5502166

GENERAL INFORMATION:  
 APPLICANT: Masayoshi MISHINA  
 TITLE OF INVENTION: NOVEL PROTEINS AND GENES CODING THE SAME  
 NUMBER OF SEQUENCES: 19  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Nishiohata Residence 1-107  
 STREET: 5214, Nishiohata-machi  
 CITY: Niigata-shi  
 STATE: Niigata-ken  
 COUNTRY: JAPAN  
 ZIP: 951

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: MS-DOS v.5  
 SOFTWARE: Word Perfect 5.1

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/026-138E  
 FILING DATE: 26-FEB-1993  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: JP 39563/1992  
 FILING DATE: 26-FEB-1992  
 APPLICATION NUMBER: JP 173155/1992  
 FILING DATE: 30-JUN-1992  
 APPLICATION NUMBER: JP 215017/1992  
 FILING DATE: 12-AUG-1992  
 APPLICATION NUMBER: JP 303878/1992  
 FILING DATE: 13-NOV-1992  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Hamburg, C.Bruce  
 REGISTRATION NUMBER: 22,389  
 REFERENCE/DOCKET NUMBER: F-4551  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 986-2340  
 TELEFAX: (212) 953-7733  
 INFORMATION FOR SEQ ID NO: 19:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 2760 nucleic acids  
 TYPE: nucleic acid  
 STRANDEDNESS: double strand  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 ORIGINAL SOURCE:  
 ORGANISM: mouse  
 TISSUE TYPE: brain  
 PUBLICATION INFORMATION:  
 AUTHORS: Masayoshi MISHINA  
 TITLE: NOVEL PROTEINS AND GENES CODING THE SAME  
 RELEVANT RESIDUES IN SEQ ID NO: 19: FROM 1 to 2760  
 US-08-026-138E-19

Alignment Scores:  
 Pred. No.: 1.68e-64 Length: 2760  
 Score: 540.00 Matches: 110  
 Percent Similarity: 100.00% Conservative: 1  
 Best Local Similarity: 99.10% Mismatches: 0  
 Query Match: 99.45% Indels: 0  
 DB: 1 Gaps: 0

US-09-652-345-6 (1-111) x US-08-026-138E-19 (1-2760)

QY 1 IleIleLeuValSerAspAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20  
 Db 433 ATCATCTGCTGGTACGTGCGATGACCAAGCAGGCCGGCAGAGCCGAG 492

QY 21 LeuLeuGluLeuGluLysAlaGlnLysValLeuGluAlaArgValLeuLeu 40  
 Db 493 TTGCTGGAGGAAGCTGAGTCAAAGCAGAGGNGCTGAGTTGACCCAGAAC 552

QY 41 AsnValThrAlaLeuLeuMetGluAlaArgGluAlaArgValLeuLeu 60  
 Db 553 ATATGACGCCCTCTGTAGAACCCGGGACCTGAACGCCGGTCAATATCCCTCT 612

QY 61 AlaSerGluAspAspAlaAlaThrValTyraGluAlaAlaMetLeuAsnMetThrGly 80  
 Db 613 GCAAGCAGGAGCAGGCTGCAACCTATAAGCAGCCGGATGCTGAACTGAGC 672

QY 81 SerGlyTyraValTrpLeuValGlyGluIleSerGlyAlaIleLeuGlu 100  
 Db 673 CCTGACGGCATCATGGACTCTAGTAACTCAC 765

QY 101 ProAspGlyIleIleGlyLeuGlnIleIleAsn 111  
 Db 733 CTTGACGGCATCATGGACTCTAGTAACTCAC 765

RESULT 2  
 Sequence 19, Application US/08026138E  
 Patent No. 5502166

GENERAL INFORMATION:  
 APPLICANT: Masayoshi MISHINA  
 TITLE OF INVENTION: NOVEL PROTEINS AND GENES CODING THE SAME  
 NUMBER OF SEQUENCES: 19  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Nishiohata Residence 1-107  
 STREET: 5214, Nishiohata-machi  
 CITY: Niigata-shi  
 STATE: Niigata-ken  
 COUNTRY: JAPAN  
 ZIP: 951

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: MS-DOS v.5  
 SOFTWARE: Word Perfect 5.1

RESULT 3  
 US-08-026-138E-19  
 Sequence 13, Application US/08231193A  
 Patent No. 5843895

GENERAL INFORMATION:

APPLICANT: Daggett, Lorrie P.

APPLICANT: Ellis, Steven B.

APPLICANT: Liaw, Chen W.

APPLICANT: Lu, Chin-Chun

TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR

TITLE OF INVENTION: SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR

NUMBER OF SEQUENCES: 63

CORRESPONDENCE ADDRESS:

ADDRESSEE: Brown, Martin, Haller & McClain

STREET: 1660 Union Street

CITY: San Diego

STATE: CA

ZIP: 92101-2926

COUNTRY: U.S.A.

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US-08/231,193A

FILING DATE: 20-APR-1994

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US-08/052,459

FILING DATE: 20-APR-1993

CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:

NAME: Seidman, Stephanie

REFERENCE/DOCKET NUMBER: 33-779

TELECOMMUNICATION INFORMATION:

TELEPHONE: 619-238-0999

TELEFAX: 619-238-0062

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 3155 base pairs

TYPE: nucleic acid

STRANDEDNESS: both

TOPOLOGY: both

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 262..3030

US-08-231-193A-13

Alignment Scores:

Bred. No.: 3.81e-64

Score: 538.00

Percent Similarity: 100.00%

Best Local Similarity: 98.20%

Query Match: 99.08%

DB: 2

Length: 3155

Matches: 109

Conservative: 2

Mismatches: 0

Indels: 0

Gaps: 0

US-09-652-345-6 (1-111) x US-08-231-193A-13 (1-3155)

Qy 1 IleLeuLeuIvalSerAspAlaAlaIleValGlyArgAlaLysArgLeuGluThr 20

Db 748 ATCATCTGGCTGGTTCAGGACCAAGGGCCGGCTCAGAACGCCCTGGAGCG 807

Qy 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGluPheAspProGlyThrLys 40

Db 808 CGCTGAGGCGTGAGTCAGGAGAGGTGACCCAGGACCAAG 867

Qy 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleLeuSer 60

Db 868 AACGTGAGGCCCTGATGATGGAGGGGGTCAATCATCCCTTC 927

Qy 61 AlaSerGluAspAlaAspAlaIleValLeuAsnMetThrLys 80

Db 928 GCCAGGGAGGAGGATGCTGCACGTACCCGGCAGGGATGCTGAACATGACGGGC 987

Qy 81 SerGlyTyrrValTrpLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgGlyAla 100

Db 988 TCCGGTTACCTGGTGGTGGCTGGGGAAACCCCTGGCTACGCC 1047

Qy 101 ProAspGlyIleIleIleDlyLeuGlnIleLeuAsn 111

Db 1048 CCAGGGCATCCCTGGCTGGCAGTCATCAC 1080

RESULT 4

US-08-486-273A-13

Sequence 13, Application US-08486273A

Patent No. 5985586

GENERAL INFORMATION:

APPLICANT: Daggett, Lorrie P.

APPLICANT: Ellis, Steven B.

APPLICANT: Liaw, Chen W.

APPLICANT: Lu, Chin-Chun

TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR SUBUNITS, DNA

TITLE OF INVENTION: SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR

NUMBER OF SEQUENCES: 63

CORRESPONDENCE ADDRESS:

ADDRESSEE: Brown, Martin, Haller & McClain

STREET: 1660 Union Street

CITY: San Diego

STATE: CA

COUNTRY: U.S.A.

ZIP: 92101-2926

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US-08/486,273A

FILING DATE: 06-JUN-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US-08/231,193

FILING DATE: 20-APR-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Seidman, Stephanie

REGISTRATION NUMBER: 33,779

REFERENCE/DOCKET NUMBER: 6362-9383B

TELECOMMUNICATION INFORMATION:

TELEPHONE: 619-238-0999

TELEFAX: 619-238-0062

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 3155 base pairs

TYPE: nucleic acid

STRANDEDNESS: both

TOPOLOGY: both

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 262..3030

US-08-231-193A-13

Alignment Scores:

Pred. No.: 3.81e-64

Score: 538.00

Percent Similarity: 100.00%

Best Local Similarity: 98.20%

Query Match: 99.08%

DB: 2

Length: 3155

Matches: 109

Conservative: 2

Mismatches: 0

Indels: 0

Gaps: 0

US-08-486-273A-13

Alignment Scores:

Pred. No.: 3.81e-64

Score: 538.00

Percent Similarity: 100.00%

Best Local Similarity: 98.20%

Query Match: 99.08%

DB: 2

Length: 3155

Matches: 109

Conservative: 2

Mismatches: 0

Indels: 0

Gaps: 0

US-09-652-345-6 (1-111) x US-08-486-273A-13 (1-3155)

Qy 1 IleIleLeuIvalSerAspAlaAlaIleValGlyArgAlaLysArgLeuGluThr 20

Db 748 ATCATCTGGCTGGTTCAGGACCAAGGGCCGGCTCAGAACGCCCTGGAGCG 807

Qy 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGluPheAspProGlyThrLys 40

Db 808 CGCTGAGGCGTGAGTCAGGAGAGGTGACCCAGGACCAAG 867

Qy 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleLeuSer 60

Db 868 AACGTGAGGCCCTGATGATGGAGGGGGTCAATCATCCCTTC 927

Qy 61 AlaSerGluAspAlaAspAlaIleValLeuAsnMetThrLys 80

Db 928 GCCAGGGAGGAGGATGCTGCACGTACCCGGCAGGGATGCTGAACATGACGGGC 987

Qy 1 IleIleLeuIvalSerAspAlaAlaIleValGlyArgAlaLysArgLeuGluThr 20

Db 748 ATCATCTGGCTGGTTCAGGACCAAGGGCCGGCTCAGAACGCCCTGGAGCG 807

Qy 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40  
 Db 808 CTGCTGGAGGGCCGTGAGTCAAAGCAGAAGAGCTGCAATGCTGAGTTGACCCGGACAAAG 867

Qy 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValLeuIleLeuSer 60  
 Db 868 AACGGACGCCCGTGTGAGCCGGTCAATGCTTCATGCTTC 927

Qy 61 AlaSerGluAspPAsPAlaAlaThrValTyRArgAlaAlaAlaMetLeuAsnMetThrGly 80  
 Db 928 GCCACGGAGGAGTGTCCACTATACCGCGAGCCCGATGCACTGAGTCAGTCAC 987

Qy 81 SerGlyTyrrValTrpLeuValGlyGluGluArgLysValSerGlyAsnAlaLeuArgTyrAla 100  
 Db 988 TCCGGGTAGTGTCGTCGGCAGGGCAGAGCTCGGGAAAGGCCCTGCGTAGGCC 1047

Qy 101 ProAspGlyTieLleGlyLeuGlnLeuIleAsn 111  
 Db 1048 CAGACGGCATCCIGGGTGAGCTGAGTCATCAC 1080

RESULT 5  
 US-08-480-474-13  
 Sequence 13, Application US/08480474  
 Patent No. 6033865

GENERAL INFORMATION:  
 APPLICANT: Daggett, Lorrie P.  
 APPLICANT: Ellis, Steven B.  
 APPLICANT: Liaw, Chen W.  
 APPLICANT: Lu, Chin-Chun

TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR SUBUNITS, DNA ENCODING  
 TITLE OF INVENTION: SAME AND USES THEREFOR  
 NUMBER OF SEQUENCES: 54  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Brown, Martin, Haller & McClain  
 STREET: 1660 Union Street  
 CITY: San Diego  
 STATE: CA  
 COUNTRY: U.S.A.  
 ZIP: 92101-2926  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/480,474  
 FILING DATE: 06-TUN-1995  
 CLASSIFICATION: 536  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Seidman, Stephanie  
 REGISTRATION NUMBER: 33,779  
 REFERENCE/DOCKET NUMBER: 6562-9382B  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-238-0999  
 TELEFAX: 619-238-0062  
 INFORMATION FOR SEQ ID NO: 13:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 3155 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 262...3030

Alignment Scores:  
 Pred. No.: 3.81e-64 Length: 3155  
 Score: 538.00 Matches: 109  
 Percent Similarity: 100.00% Conservative: 2  
 Best Local Similarity: 98.208 Mismatches: 0  
 Query Match: 99.088 Indels: 0

DB: 3 Gaps: 0  
 US-09-652-345-6 (1-111) x US-08-480-474-13 (1-3155)

Qy 1 IleLeuLeuValSerAspAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20  
 Db 748 ATCATCCGTGTCAGGACGACCAACAGGGCGGCACAGAACGCCCTGGAGACG 807

Qy 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40  
 Db 808 CTGCTGGAGGGCCGTGAGTCAAAGCAGAAGAGCTGCAATGCTGAGTTGACCCGGAC 867

Qy 41 AsnValThrAlaLeuLeuMetGluAlaArgValLeuIleLeuSer 60  
 Db 868 AACGTGAGGAGCTGCTGCACTGATGGAGCTGAAAGCTGAGTCAGTCATCCCTCT 927

Qy 61 AlaSerGluAspPAsPAlaAlaThrValTyRArgAlaAlaAlaMetLeuAsnMetThrGly 80  
 Db 928 GCGAGCGAGGAGCCTGCCCACGTATACCGCGCACCGCGATGCTGAACATGACGGGC 987

Qy 81 SerGlyTyrrValTrpLeuValGlyGluGluArgLysValSerGlyAsnAlaLeuArgTyrAla 100  
 Db 988 TCCGGGTAGTGTCGTCGGCAGGGCAGATCTCGGGAAACGCCCTGCGTAGGCC 1047

RESULT 6  
 US-08-90-086A-13  
 Sequence 13, Application US/08940086A  
 Patent No. 6111091  
 GENERAL INFORMATION:  
 APPLICANT: Daggett, Lorrie P.  
 APPLICANT: Ellis, Steven B.  
 APPLICANT: Liaw, Chen W.  
 APPLICANT: Lu, Chin-Chun  
 TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR SUBUNITS, DNA ENCODING SAME AND USES THEREFOR  
 NUMBER OF SEQUENCES: 63  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Heller, Bharman White & McAuliffe  
 STREET: 4250 Executive Square, 7th Floor  
 CITY: La Jolla  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 92037  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/940,086A  
 FILING DATE: 29-SEPT-97  
 CLASSIFICATION: 536  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/940,086A  
 FILING DATE: 20-APR-1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/052,449  
 FILING DATE: 20-APR-1993  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Seidman, Stephanie  
 REGISTRATION NUMBER: 33,779  
 REFERENCE/DOCKET NUMBER: 24735-9383C  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (619) 450-8400  
 TELEFAX: (619) 450-8499  
 INFORMATION FOR SEQ ID NO: 13:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 3155 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 262...3030

STRANDEDNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 262 .. 3030  
 US-08-940-086A-13

Alignment Scores:

Bred. No. :	3 . 81e-54	Length:	3155
Score:	538.00	Matches:	109
Percent Similarity:	100.0%	Conservative:	2
Best Local Similarity:	98.20%	Mismatches:	0
Query Match:	99.08%	Indels:	0
DB:	3	Gaps:	0

US-09-652-345-6 (1-111) x US-08-940-086A-13 (1-3155)

Qy	1 IleIleLeuValSerAspAspAspHisLysGluGlyArgAlaAlaLysArgLeuGluThr 20
Db	748 ATCATCTGCCTGGTCACGGACGCCAGAGGGCCGGCTCAGAACGCCCTGGAGAGC 807

Qy 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGluArgLysAspProGlyThrLys 40

Db	808 CTGCTGGAGGAGCTGTGACTTCAGGCAGAGAACGTTGCGCAAGTGTGACCCAGGACCAAG 867
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Qy 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleIleLeuSer 60

Db	868 AACGTGACGGCCCTGATGAGGGCCGGGTCATCATCACCTTCT 927
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Qy 61 AlaSerGluAspASPAspAlaAlaIleValThrAlaValGluAsnAlaMetLeuAsnMetThrGly 80

Db	928 GCCAGCAGGGAGATGTGCACTGATAACCGGCAGCGGATGCGAACATGACGGC 987
----	--

Qy 81 SerGlyTyraValTyrLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgTyraAla 100

Db	988 TCCGGGTACGTGCGCTGGCGACGGCGAGATCAGGGAAACGCCCTGCCTACCCC 1047
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Qy 101 ProAspGlyIleIleIleGlyLeuGlnLeuIleAsn 111

Db	1048 CCAGACGGCAACCTCGGGCTGCAGCTCATCAC 1080
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RESULT 7

US-08-940-035A-13  
 Sequence 13, Application US/08940035A

GENERAL INFORMATION:

Patent No. 6316611  
 APPLICANT: Daggett, Lorrie P.  
 APPLICANT: Ellis, Steven B.  
 APPLICANT: Liaw, Chen W.  
 APPLICANT: Lu, Chin-Chun

TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR  
 NUMBER OF SEQUENCES: 63

ADDRESSEE: Heller Bharman White & McAuliffe  
 STREET: 4250 Executive Square, 7th Floor  
 CITY: La Jolla  
 STATE: CA  
 COUNTRY: U.S.A.  
 ZIP: 92037

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/940,035A  
 FILING DATE: 29-SEPT-97  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/231,193  
 FILING DATE: 20-APR-1994  
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/052,449  
 FILING DATE: 20-APR-1993  
 CLASSIFICATION: 536  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Seidman, Stephanie  
 REGISTRATION NUMBER: 33,779  
 REFERENCE/DOCKET NUMBER: 6362-9383E  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-238-0999  
 TELEFAX: 619-238-0062  
 INFORMATION FOR SEQ ID NO: 13:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 3155 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 262 .. 3030  
 US-08-940-035A-13

Alignment Scores:

Pred. No. :	3 . 81e-54	Length:	3155
Score:	538.00	Matches:	109
Percent Similarity:	100.0%	Conservative:	2
Best Local Similarity:	98.20%	Mismatches:	0
Query Match:	99.08%	Indels:	0
DB:	4	Gaps:	0

US-09-652-345-6 (1-111) x US-08-940-035A-13 (1-3155)

Qy	1 IleIleLeuValSerAspAspHisLysGluGlyArgAlaAlaLysArgLeuGluThr 20
Db	748 ATCATCTGTGCTGGACGCCAGACCCGAGCTGACCTGATCCCTTCT 807

Qy 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGluAspPheAspProGlyThrLys 40

Db	748 ATCATCTGTGCTGGACGCCAGACCCGAGCTGACCTGATCCCTTCT 807
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Qy 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGluAspPheAspProGlyThrLys 40

Db	808 CTGCTGGAGGAGCTGAGTCAAGGGAGAGCTGACCTGATCCCTTCT 867
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Qy 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleIleLeuSer 60

Db	868 AACGTGACGGCCCTGATGAGGGCCGGGTCATCATCACCTTCT 927
----	--

Qy 61 AlaSerGluAspASPAspAlaAlaIleValThrAlaValGluAsnAlaMetLeuAsnMetThrGly 80

Db	928 GCCAGCAGGGAGATGTGCACTGATAACCGGCAGCGGATGCGAACATGACGGC 987
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Qy 81 SerGlyTyraValTyrLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgTyraAla 100

Db	988 TCCGGGTACGTGCGCTGGCGACGGCGAGATCAGGGAAACGCCCTGCCTACCCC 1047
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Qy 101 ProAspGlyIleIleIleGlyLeuGlnLeuIleAsn 111

Db	1048 CCAGACGGCAACCTCGGGCTGCAGCTCATCAC 1080
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RESULT 8

US-08-935-105A-13  
 Sequence 13, Application US/08935105A

GENERAL INFORMATION:

Patent No. 631660  
 GENERAL INFORMATION:  
 APPLICANT: Daggett, Lorrie P.  
 APPLICANT: Lu, Chin-Chun

TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR  
 NUMBER OF SEQUENCES: 63

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Heller Bharman White & McAuliffe  
 STREET: 4250 Executive Square, 7th Floor  
 CITY: La Jolla  
 STATE: CA  
 COUNTRY: U.S.A.  
 ZIP: 92037

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/940,035A  
 FILING DATE: 29-SEPT-97  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/231,193  
 FILING DATE: 20-APR-1994  
 PRIOR APPLICATION DATA:

ATTORNEY/AGENT INFORMATION:  
 NAME: Seidman, Stephanie  
 REGISTRATION NUMBER: 33,779  
 REFERENCE/DOCKET NUMBER: 6362-9383E  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-238-0999  
 TELEFAX: 619-238-0062  
 INFORMATION FOR SEQ ID NO: 13:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 3155 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 262 .. 3030  
 US-08-940-035A-13

Alignment Scores:

Pred. No. :	3 . 81e-54	Length:	3155
Score:	538.00	Matches:	109
Percent Similarity:	100.0%	Conservative:	2
Best Local Similarity:	98.20%	Mismatches:	0
Query Match:	99.08%	Indels:	0
DB:	4	Gaps:	0

US-09-652-345-6 (1-111) x US-08-940-035A-13 (1-3155)

Qy	1 IleIleLeuValSerAspAspHisLysGluGlyArgAlaAlaLysArgLeuGluThr 20
Db	748 ATCATCTGTGCTGGACGCCAGACCCGAGCTGACCTGATCCCTTCT 807

Qy 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGluAspPheAspProGlyThrLys 40

Db	748 ATCATCTGTGCTGGACGCCAGACCCGAGCTGACCTGATCCCTTCT 807
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Qy 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGluAspPheAspProGlyThrLys 40

Db	808 CTGCTGGAGGAGCTGAGTCAAGGGAGAGCTGACCTGATCCCTTCT 867
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Qy 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValIleIleLeuSer 60

Db	868 AACGTGACGGCCCTGATGAGGGCCGGTCATCATCACCTTCT 927
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Qy 61 AlaSerGluAspASPAspAlaAlaIleValThrAlaValGluAsnAlaMetLeuAsnMetThrGly 80

Db	928 GCCAGCAGGGAGATGTGCACTGATAACCGGCAGCGGATGCGAACATGACGGC 987
----	--

Qy 81 SerGlyTyraValTyrLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgTyraAla 100

Db	988 TCCGGGTACGTGCGCTGGCGACGGCGAGATCAGGGAAACGCCCTGCCTACCCC 1047
----	--

Qy 101 ProAspGlyIleIleIleGlyLeuGlnLeuIleAsn 111

Db	1048 CCAGACGGCAACCTCGGGCTGCAGCTCATCAC 1080
----	--

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC Compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/935,105A  
FILING DATE: 29-SEPT-97  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/231,193  
FILING DATE: 20-APR-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/052,449  
FILING DATE: 20-APR-1993  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Seidman, Stephanie  
REGISTRATION NUMBER: 33,779  
REFERENCE/DOCKET NUMBER: 6352-9383D  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619-238-0999  
TELEFAX: 619-238-0062  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3155 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: both  
TOPOLOGY: both  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 262...3030

Alignment Scores:	
aligned. No.:	3.81e-64
core:	538.00
parent. Similarity:	100.00%
best Local Similarity:	98.20%
Match:	99.08%
Max. Match:	4
Length:	3155
Matches:	109
Conservative:	2
Mismatches:	0
Indels:	0
Gaps:	0

RESULTS 9  
S-09-648-797-13  
Sequence 13, Application US/09648797  
Patent No. 6,691,422  
GENERAL INFORMATION:



Alignment Scores:  
 Pred. No.: 3.91e-64 Length: 3211  
 Score: 538.00 Matches: 109  
 Percent Similarity: 100.00% Conservative: 2  
 Best Local Similarity: 98.20% Mismatches: 0  
 Query Match: 99.08% Indels: 0  
 DB: 2 Gaps: 0  
 US-09-652-345-6 (1-111) x US-08-486-273A-21 (1-3211)

STRANDEDNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE: NAME/KEY: CDS  
 LOCATION: 262...3192  
 US-09-480-474-21

Alignment Scores:  
 Pred. No.: 3.91e-64 Length: 3211  
 Score: 538.00 Matches: 109  
 Percent Similarity: 100.00% Mismatches: 0  
 Best Local Similarity: 98.20% Indels: 0  
 Query Match: 99.08% Gaps: 0  
 DB: 3  
 US-09-652-345-6 (1-111) x US-08-480-474-21 (1-3211)

Query 1 IleIleLeuValSerAspAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20  
 Db 748 ATCATCTGGTGGTACGAGCACCAGGCGCCGGCTAGCTGGAGACG 807

Query 21 LeuLeuGluArgGluSerIysAlaGluLysValLeuGlnPheAspProGlyThrLys 40  
 Db 808 CTGCTGGAGGAGCGTGAGTCAGTCAGCTGGACAGGACCCAG 867

Query 41 AsnValThrAlaLeuMetGluAlaArgGluLeuGluAlaArgValIleLeuSer 60  
 Db 868 AACGTGACGGCCCTGCTGATGAGCTGGAGGCCAAAGAGCTGGAG 927

Query 61 AlaSerGluAspAspAlaAlaLysValLeuAlaAlaMetLeuAsnMetThrGly 80  
 Db 928 GCCAGGGAGGAGCATGCTGGCACTGTATACCGCAGCTGAACATGACGGC 987

Query 81 SerGlyTyrrValTrpLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgTyra 100  
 Db 988 TCCGGTAGCTGTTGGCTGCTGGAGCATCGGGAGACGCCCTACCCC 1047

Query 101 ProAspGlyIleIleGlyLeuGlnLeuIleAsn 111  
 Db 1048 CCAGACGGCATCCTCGGGCTGCAAGCTCATCACAC 1080

RESULT 12 US-08-480-474-21  
 Sequence 21, Application US/08480474  
 Patent No. 603865

GENERAL INFORMATION:  
 APPLICANT: Daggett, Lorrie P.  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Seidman, Stephen B.  
 ADDRESS: Brown, Martin, Haller & McClain  
 STREET: 1660 Union Street  
 CITY: San Diego  
 STATE: CA  
 COUNTRY: U.S.A.  
 ZIP: 92101-2946  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/480,474  
 FILING DATE: 06-JUN-1995  
 CLASSIFICATION: 536  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Seidman, Stephen  
 REGISTRATION/DOCKET NUMBER: 33-779  
 TELECOMMUNICATION INFORMATION:  
 TELLEFAX: 619-238-0999  
 INFORMATION FOR SEQ ID NO: 21:  
 LENGTH: 3211 base pairs  
 TYPE: nucleic acid

STRANDEDNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE: NAME/KEY: CDS  
 LOCATION: 262...3192  
 US-09-480-474-21

Alignment Scores:  
 Pred. No.: 3.91e-64 Length: 3211  
 Score: 538.00 Matches: 109  
 Percent Similarity: 100.00% Mismatches: 0  
 Best Local Similarity: 98.20% Indels: 0  
 Query Match: 99.08% Gaps: 0  
 DB: 3  
 US-09-652-345-6 (1-111) x US-08-480-474-21 (1-3211)

Query 1 IleIleLeuValSerAspAspHisGluGlyArgAlaGlnLysArgLeuGluThr 20  
 Db 748 ATCATCTGGTGGTACGAGCACCAGGCGCCGGCTAGCTGGAGACG 807

Query 21 LeuLeuGluArgGluSerIysAlaGluLysValLeuGlnPheAspProGlyThrLys 40  
 Db 808 CTGCTGGAGGAGCGTGAGTCAGCTGGACAGGACCCAG 867

Query 41 AsnValThrAlaLeuMetGluAlaArgGluLeuGluAlaArgValIleLeuSer 60  
 Db 868 AACGTGACGGCCCTGCTGATGAGCTGGAGGCCAAAGAGCTGGAG 927

Query 61 AlaSerGluAspAspAlaAlaLysValLeuAlaAlaMetLeuAsnMetThrGly 80  
 Db 928 GCCACGGAGCACGATGCTGGCACTGTGGAGGCCAAAGAGCTGGAG 987

Query 81 SerGlyTyrrValTrpLeuValGlyGluArgGluIleSerGlyAsnAlaLeuArgTyra 100  
 Db 988 TCCGGTAGCTGTTGGCTGCTGGAGCATCGGGAGACGCCCTACCCC 1047

Query 101 ProAspGlyIleIleGlyLeuGlnLeuIleAsn 111  
 Db 1048 CCAGACGGCATCCTCGGGCTGCAAGCTCATCACAC 1080

RESULT 13 US-08-940-086A-21  
 Sequence 21, Application US/08940086A  
 Patent No. 6111091

GENERAL INFORMATION:  
 APPLICANT: Daggett, Lorrie P.  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Ellis, Steven B.  
 ADDRESS: Heller Ehrman White & McAuliffe  
 STREET: 4250 Executive Square, 7th Floor  
 CITY: La Jolla  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 92037  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/480,474  
 FILING DATE: 06-JUN-1995  
 CLASSIFICATION: 536  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Seidman, Stephen  
 REGISTRATION/DOCKET NUMBER: 33-779  
 TELECOMMUNICATION INFORMATION:  
 TELLEFAX: 619-238-0962  
 INFORMATION FOR SEQ ID NO: 21:  
 LENGTH: 3211 base pairs  
 TYPE: nucleic acid

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/052,449  
 FILING DATE: 20-APR-1993  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Seidman, Stephanie  
 REGISTRATION NUMBER: 33,779  
 REFERENCE/DOCKET NUMBER: 24735-9389C  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (619) 450-8400  
 TELEFAX: (619) 450-8499  
 INFORMATION FOR SEQ ID NO: 21:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 3211 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 262..3192  
 US-08-940-036A-21

Alignment Scores:

Pred. No.:	Score:	Length:	Matches:	Conservative:	Mismatches:	Indels:	Gaps:
748	ATCATCTGCTGTAGTCAGGACACCAGGGCCGGCTAGAACGCCCTGGAGACG	3.91e-64	538.00	100.00%	2	0	0
748	CTGCTGGAGGCCGTAGTCAGGAGAAAGTGCAGTTGACCAAGGACCAAG	3211	3211	109	0	0	0

US-09-652-345-6 (1-111) x US-08-940-086A-21 (1-3211)

Qy 1 IleIleLeuLeuValSerAspAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20  
 Db 748 ATCATCTGCTGTAGTCAGGACACCAGGGCCGGCTAGAACGCCCTGGAGACG 807

Qy 21 LeuLeuGluGluArgGluUserLysAlaLysValLeuGlnPheAspProGlyThrLys 40  
 Db 808 CTGCTGGAGGCCGTAGTCAGGAGAAAGTGCAGTTGACCAAGGACCAAG 867

Qy 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValLeuLeuSer 60  
 Db 868 AACGTGACGCCCTGCTGATGGGGGAAGAACGCTGGAGGGCTCATCATCCTTCT 927

Qy 61 AlaSerGluAspAspAlaAlaThrValTyrgAlaAlaAlaLeuAsnMetThrGly 80  
 Db 928 GGCAGCGAGGAGATGCTGCACGTATACTGCTGGCAGCGGGATGCTGAAACAGACGGCC 987

Qy 81 SerGlyTyrAlrTrpLeuValGlyIgluArgGluIleSerGlyAsnAlaLeuArgTyrAla 100  
 Db 988 TCCGGTTACGTCTGGCTGGTGGCAGGGAGATCTGGGAACGCCCCTGGCTAACGC 1047

Qy 101 ProAspGlyIleIleGlyLeuGlnLeuLeuAsn 111  
 Db 1048 CCAGACGGCATTCTCGGGCTGCACTCACAC 1080

RESULT 14

Sequence 21: Application US/08940035A  
 Patent No. 6316611  
 GENERAL INFORMATION:  
 APPLICANT: Daggett, Lorrie P.  
 APPLICANT: Ellis, Steven B.  
 APPLICANT: Liaw, Chen W.  
 APPLICANT: Lu, Chin-Chun  
 TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR  
 TITLE OF INVENTION: SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR  
 NUMBER OF SEQUENCES: 63  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Heller Shrmn White & McAuliffe  
 STREET: 4250 Executive Square, 7th Floor  
 CITY: La Jolla  
 STATE: CA

COUNTRY: U.S.A.  
 ZIP: 92037  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/940,035A  
 FILING DATE: 29-SEPT-97  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/231,193  
 FILING DATE: 20-APR-1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/052,449  
 FILING DATE: 20-APR-1993  
 CLASSIFICATION: 536  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Seidman, Stephanie  
 REGISTRATION NUMBER: 33,779  
 REFERENCE/DOCKET NUMBER: 6362-9389E  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-238-0999  
 TELEX: 619-38-0062  
 INFO FOR SEQ ID NO: 21:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 3211 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 262..3192  
 US-08-940-035A-21

Alignment Scores:

Pred. No.:	Score:	Length:	Matches:	Percent Similarity:	Best Local Similarity:	Query Match:	DB:
	3.91e-64	538.00	109	100.00%	98.20%	99.08%	4
	538.00	3211	3211	109	100.00%	99.08%	4

Length: 3211  
 Matches: 109  
 Conservative: 2  
 Mismatches: 0  
 Indels: 0  
 Gaps: 0

US-09-652-345-6 (1-111) x US-08-940-035A-21 (1-3211)

Qy 1 IleIleLeuLeuValSerAspAspHisGluGlyArgAlaAlaGlnLysArgLeuGluThr 20  
 Db 748 ATCATCTGCTGTAGTCAGGACACCAGGGCCGGCTAGAACGCCCTGGAGACG 807

Qy 21 LeuLeuGluGluArgGluUserLysAlaLysValLeuGlnPheAspProGlyThrLys 40  
 Db 808 CTGCTGGAGGCCGTAGTCAGGAGAAAGTGCAGTTGACCAAGGACCAAG 867

Qy 41 AsnValThrAlaLeuLeuMetGluAlaArgGluLeuGluAlaArgValLeuLeuSer 60  
 Db 868 AACGTGACGCCCTGCTGATGGGGGAAGAACGCTGGAGGGCTCATCATCCTTCT 927

Qy 61 AlaSerGluAspAspAlaAlaThrValTyrgAlaAlaAlaLeuAsnMetThrGly 80  
 Db 928 GGCAGCGAGGAGATGCTGCACGTATACTGCTGGCAGCGGGATGCTGAAACAGACGGCC 987

Qy 81 SerGlyTyrAlrTrpLeuValGlyIgluArgGluIleSerGlyAsnAlaLeuArgTyrAla 100  
 Db 988 TCCGGTTACGTCTGGCTGGCAGGGAGATCTGGGAACGCCCCTGGCTAACGC 1047

Qy 101 ProAspGlyIleIleGlyLeuGlnLeuLeuAsn 111  
 Db 1048 CCAGACGGCATTCTCGGGCTGCACTCACAC 1080

RESULT 14

Sequence 21: Application US/08940035A  
 Patent No. 6316611  
 GENERAL INFORMATION:  
 APPLICANT: Daggett, Lorrie P.  
 APPLICANT: Ellis, Steven B.  
 APPLICANT: Liaw, Chen W.  
 APPLICANT: Lu, Chin-Chun  
 TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR  
 TITLE OF INVENTION: SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR  
 NUMBER OF SEQUENCES: 63  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Heller Shrmn White & McAuliffe  
 STREET: 4250 Executive Square, 7th Floor  
 CITY: La Jolla  
 STATE: CA

RESULT 15  
 US-08-935-105A-21  
 Sequence 21: Application US/08935105A

Patent No. 6376660  
 GENERAL INFORMATION:  
 APPLICANT: Daggett, Lorrie P.  
 ATTLL: LU, Chin-A  
 TITLE OF INVENTION: HUMAN N-METHYL-D-ASPARTATE RECEPTOR  
 TITLE OF INVENTION: SUBUNITS, NUCLEIC ACIDS ENCODING SAME AND USES THEREFOR  
 NUMBER OF SEQUENCES: 63  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Heller, Ehrman White & McAuliffe  
 STREET: 4250 Executive Square, 7th Floor  
 CITY: La Jolla  
 STATE: CA  
 COUNTRY: U.S.A.  
 ZIP: 92037

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM®PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/935,105A  
 FILING DATE: 29-SEPT-97  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/231,193  
 FILING DATE: 20-APR-1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/052,449  
 FILING DATE: 20-APR-1993  
 CLASSIFICATION: 536  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Saidman, Stephanie  
 REGISTRATION NUMBER: 33,779  
 REFERENCE/DOCKET NUMBER: 6362-9383D  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-238-0999  
 TELEFAX: 619-238-0062  
 INFORMATION FOR SEQ ID NO: 21:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 3211 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: both  
 TOPOLOGY: both  
 MOLECULE TYPE: cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 2622..3192  
 US-08-935-105A-21

Alignment Scores:  
 Pred. No.: 3.91e-64 Length: 3211  
 Score: 538.00 Matches: 109  
 Percent Similarity: 100.00% Conservative: 2  
 Best Local Similarity: 98.20% Mismatches: 0  
 Every Match: 99.08% Indels: 0  
 : Gaps: 0

US-09-652-345-6 (1-111) x US-08-935-105A-21 (1-3211)

QY 1 IleIleLeuLeuValSerAspAspIleGluIArgAlaAlaGlnLysArgLeuGluThr 20  
 DB 748 ATCATCCTGTGGTCAAGCGACCAZGAGCCGGCGGGCTGAGAACGCCCTGGAGACG 807  
 QY 21 LeuLeuGluGluArgGluSerLysAlaGluLysValLeuGlnPheAspProGlyThrLys 40  
 DB 808 CTGCTGGAGAGCGTGAGTCAGCAAGCGAGAGGCTGCAATGTTGACCCAGGCAAG 867  
 QY 41 AsnValThrAlaLeuLeuMetGluAlaArgGluAlaArgValIleLeuSer 60  
 DB 868 AACCTGACCCGCCCGCTGAGGCGAAANGAGCCTGGAGGCGGTCAATCATCCCTTC 927  
 QY 61 AlaSerGluAspAspAlaAlaThrValtyrArgAlaAlaAlaMetLeuAsnMetThrGly 80  
 DB 928 GCCAGCGAGGACGAGTGTGCACGTATAACGCCAGCGATGCTGAACATGACGGC 987